



MAINE DEPARTMENT OF TRANSPORTATION

2003 Work Zone Safety Challenge

Choose one answer, unless noted otherwise.

Many of these questions are straightforward but most of the answers can be found in one of the following locations:

- ✓ **MDOT Safety Management website:** <http://www.state.me.us/mdot/planning/safety/safety1.htm>
- ✓ **MDOT Local Roads Center website:** <http://www.state.me.us/mdot/planning/csd/flagging.htm>
- ✓ **MUTCD website:** http://mutcd.fhwa.dot.gov/kno-millennium_06.14.01.htm

1) The #1 cause of crashes in Maine work zones is:

- a) Cell phone usage
- b) Rear enders
- ☒ c) Inattentiveness of the driver <http://state.maine.us/mdot/workzone/factors.htm>
- d) Too many young drivers driving around with the bass turned way up

2) Maine state law says that ALL flaggers on Maine roads must:

- ☒ a) Receive training only if you are privately employed **(23 MRSA 707)**
- b) Be certified annually
- c) Watch a video and attend a class sponsored by the Maine Flaggers Association
- d) Be certified and carry a certification card with them at all times

3) All work zone signs must be made with “retroreflective” sheeting. What does that mean?

- a) Some of the light that hits it makes the white light look like many colors
- b) The “Retroflexite” Company makes it
- c) They are made with special reflective paint which causes them to look brighter
- ☒ d) All light returns back to its source so it appears brighter **(MUTCD Sec. 1A.13)**

4) Maine DOT policy states that a flagger working for MDOT must have:

- a) A hard hat, flannel shirt, and some spare change
- b) A break every 4 hours
- ☒ c) Passed a flagger test and be carrying an official flagger certification card **(APM 422)**
- d) Have at least a half day field training before actually being a flagger

5) The “taper area” of a work zone on a two lane road is:

- ☒ a) where traffic begins to move out of the lane **(MUTCD Sec. 6C.05)**
- b) where one can park a truck to protect the workers
- c) where the advance signing exists before the work area
- d) where at least 10 cones are used to block traffic

6) Highway workers are more likely to be injured or killed in work zone crashes than vehicle occupants.

____ True X False

7) This guardrail installation has a flagger positioned to warn approaching traffic. There are 2 BIG problems with the flagger. What are they:

- a) His vest is too small
- b) He is too close to the truck
- c) He should be wearing a white hard hat
- ☒ d) He should be standing on the side of the truck
- ☒ e) He has no good escape route
- f) His STOP/SLOW paddle is too short



8) This photo shows a work zone before a curve with some obvious problems. How could this be better?

- a) The pile could be repositioned to provide more room for cars to pass by
- b) A flagger needs to be here
- c) Cones need to be laid out better
- d) No one is wearing vests
- e) The advance sign needs to be higher off the ground
- ☒ f) All of the above
- g) Some of the above



9) This "Type 1" barricade along a busy road:

- a) Is a huge liability if a car hits it and it injures an occupant
- b) Should be turned so that drivers can see the striped rail
- c) Could become a spear if hit by a driver
- ☒ d) All of the above

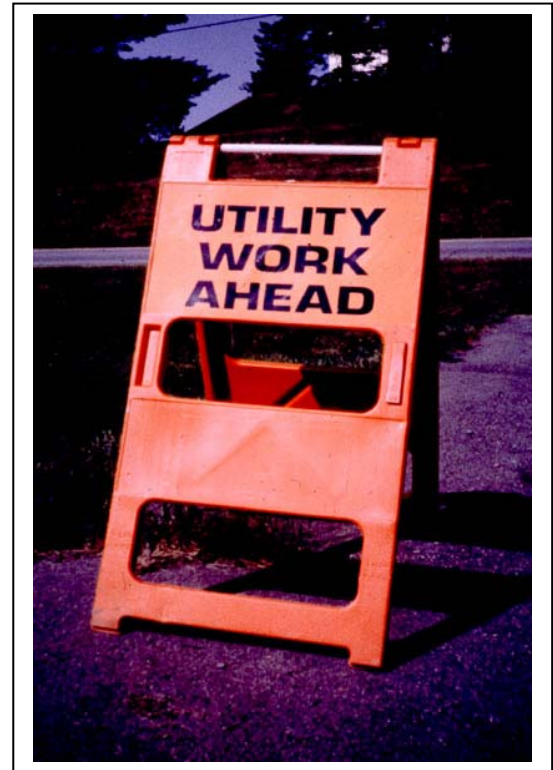


10) The total number of crashes in Maine work zones in 2000 was:

- a) 233
- ☒ b) 745 <http://www.state.us/mdot/workzone/types.htm>
- c) 98
- d) 1,001

11) All work zone devices must meet certain national standards for size, shape, and color. This device is known as a:

- a) Modified Type 4 barricade
- b) A plastic “warnicade”
- ☒ c) Nonstandard device that should not be used
- d) A modified Type S warning sign



12) A standard arrow panel in the arrow mode can be used:

- ☒ a) only on multilane roads (MUTCD Sec. 6F-01)
- b) for shoulder work as long as all equipment is off the pavement
- c) temporarily closing one lane on a two lane road
- d) all of the above
- e) “a” and “b” only

13) Which one of the following is NOT a minimum qualification to be a flagger on a public road:

- a) Neat appearance
- b) Average intelligence
- c) Adequate training
- d) Courteous but firm manner
- ☒ e) At least a high school education (MUTCD Sec. 6E-01)

14) Traffic cones need to be a certain height and color for use on a public road. All of the cones shown here are 28 inches high. (MUTCD Sec. 6F-56)

Which of the cones (1st, 2nd, 3rd, or 4th) is the only proper cone to be used at night? 1st

Which of the cones can be used during the daytime? All of them

What is the minimum height of a cone for day time use? 18 inches



15) If you were driving down the road and saw this barricade, which side should you drive to, assuming that it was set up correctly?

☒ X to the right

(MUTCD Sec 6F-60)

☐ to the left



16) The following photo is a work zone on a 2 lane road. What's missing?

- a) Flaggers
- b) Better signing
- c) Clear direction on WHEN to go
- d) Better layout of cones
- e) Common sense by whoever set this up
- ☒ f) All of the above
- g) "a" and "c" only



17) There are 5 categories of work duration defined in the MUTCD. A "short duration" work zone is one when work occupies a location _____:

- a) Up to 15 minutes
- ☒ b) Up to 1 hour
- c) When the work is mobile
- d) Anytime it takes longer to set up the signs than to do the work

(MUTCD Sec. 6G-02)

18) The Manual on Uniform Traffic Control Devices (MUTCD) is the national and Maine DOT standard for traffic control. In this Manual, there is a "color code" which describes a color and its standard application/meaning. Knowing that orange indicates "temporary traffic control", when can "fluorescent yellow-green" be used?

- ☒ a) A warning sign for pedestrians, bicyclists, schools, and school crossings
- b) Anything that requires extra attention by a motorist
- c) High crash locations such as certain intersections
- d) Only in larger towns and cities

(MUTCD Sec. 1A-12)